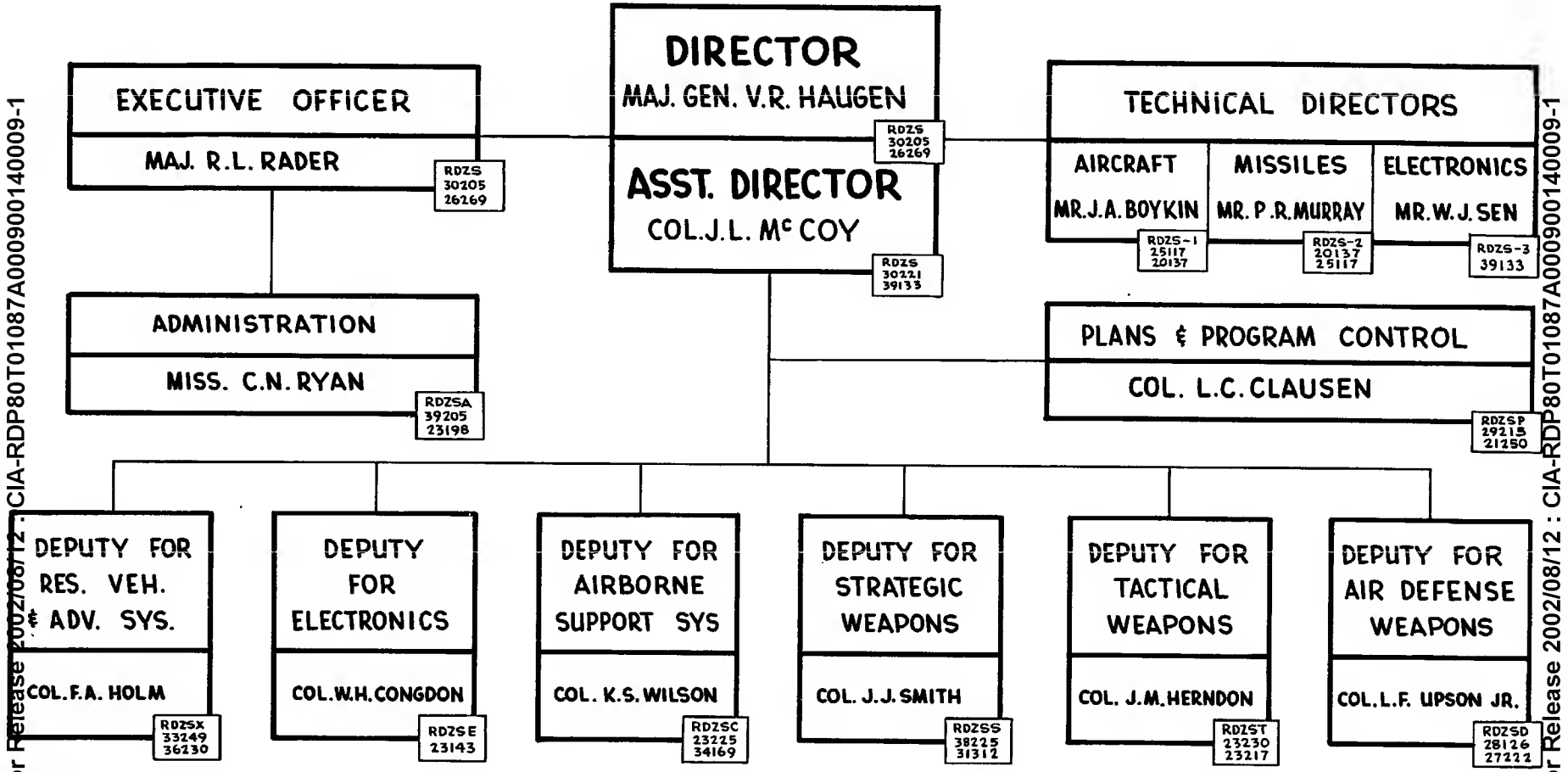

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1. Format for routine publications should be programmed to relieve personnel from tedious compilation activities by [redacted] method interrogation of central files.

2. Speed of operation should be made compatible as practicable with crash requirements.

3. Versatility of format should be achieved wherein specialized reports can be programmed using selected portions from specified portions of the central files.

4. Mechanization of production scheduling and establishment of priorities of users is required.

c. General Considerations

1. The development under this contract shall successfully meet economic scrutiny on the following basic considerations:

Mass Dissemination	VS	Facile and Precise Retrieval
Routine Reproduction	VS	Rapid Accessibility
Personnel		Machine
Cost		Cost
Time	VS	Time
Efficiency		Efficiency

2. In all work on this sub-system serious consideration shall be given not only to related developments (see Section IV) but to future implications of developments in this subsystem and to future requirements within System 438L.

III. Background

In development of the Design Approach consideration should be given to the following document:

(a) "Design Study for an Intergrated USAF Intelligence Handling System" (Parts I-VI) (Secret) Ramo Wooldridge Corporation. Contract AF 30(635)-286 (Secret)

(b) Geographic Indexing, Search Plotting Study

IV. Related Developments

In developing the Design Approach, the Detailed Subsystem Design, and throughout the life of the contract consideration shall be given to other related, existing ARDC developments. They are as follows: AN/GSQ-11, Minicard; AN/GSQ-20, Reconnaissance Data Processing Set; AN/GSQ-14, Electrophote viewer; AN/GLA-7, Flint-Photo Data Analyser Set; AN/GSQ-16, Mechanical Language Translator and AN/GSQ-18 Magnacard. Air Office of Scientific Research Contract AF49-638-51 covering "Comac, a Generalized Literature Searching Device". Data on these developments will be made available through Hq ARDC Det #1, RDZSY.

It is expected that this subsystem will be compatible with other subsystems of AFCIN. It is further expected that it will utilize wherever practicable those developments listed above unless overriding proof is offered against such use.

The contractor shall, to the extent that it does not involve obtaining information disclosed by others on a confidential basis or which would otherwise expose the contractor to any civil liability, maintain cognizance of all developments in the industry and government applicable to this subsystem with a view to possible integration as components or techniques into the subsystem.

V. Time Phasing

Phase I: The contractor beginning 1 February 1958 shall initially conduct an engineering investigation of specified information processing, evaluating and analytical functions within AFCIN-3. Necessary investigation of the screening and dissemination functions performed by other Directorates within ACS/I will be undertaken. The contractor shall then submit to RDZSY, Det #1, ARDC by 2 June 1958 20 non-reproducible copies of a Design Approach for fabrication of functional test hardware together with a complete functional and manning plan to demonstrate a capability for very significant improvement in the data handling procedure in the Directorate of Targets. A joint evaluation by ARDC and AFCIN personnel of the Design Approach will be completed on or about 2 July 1958. During the evaluation period referenced above the contractor shall provide such assistance as required by RDZSY Det #1, ARDC and shall accomplish such modifications of the report as mutually agreed to between the contractor and ARDC. Approval by RDZSY Det #1, ARDC of the Design Approach will be required prior to commencement of Phase II.

Phase II: Based upon the approved approach, the Detailed Design of the subsystem shall be produced and delivered to RDZSY, Det #1, ARDC by 1 October 1958. A joint evaluation by ARDC and AFCIN of the subsystem design will be completed on or about 1 December 1958. Approval of the subsystem design will be required prior to commencement of Phase III, procurement of system components and fabrication of functional test hardware.

During the evaluation period referenced above the contractor shall provide such assistance as required by RDZSY, Det #1, ARDC and shall accomplish such modifications of the report as mutually agreed to between the contractor and ARDC.

VI. Option for Additional Services:

The Government is granted an option for additional services consisting of the following:

1. Procurement of system components and fabrication of functional test hardware.

2. Functional, environmental and suitability testing at such places as directed by the Government.

3. Installation of all components as directed by the Government.

4. Equipment and services to test, operate and maintain the equipment after completion of installation.

5. Programming and program analysis services and other necessary manning to demonstrate the improvement in operation achieved by the subsystem.

6. Final engineering report covering subsystem design installation and testing and recommendation for implementation and improvement.

7. Handbook of operations instructions, maintenance instructions, and installation drawings.

8. Spare parts as determined.

9. Assist in statistical determination of logistic requirements and operational reliability.

This option will be subject to technical agreement on all phases of the additional work which will be evidenced by appropriate detailed statement/s of work. The exercise of this option will be further evidenced by an appropriate amendment to this contract subject to the following conditions; successful conclusion of negotiations and necessary approvals.

VII. Reports

1. Design Approach

By 2 June 1958 20 copies of a Design Approach shall be delivered. This approach will cover new procedures and the fabrication of functional test hardware and purchase/lease of off-shelf hardware to demonstrate a capability for very significant improvement in the data handling procedures in the Directorate of Targets. The contractor shall provide as required assistance in any presentations on the Design Approach.

2. Detailed Subsystem Design

By 31 October 1958 20 copies of a Detailed subsystem Design will be delivered. This design will give emphases to, but will not be restricted to, the four major areas of development as covered in II above, and will extend the scope and detail of the Design Approach with specific reference to procedures and machinery. The contractor shall provide as required assistance in any presentation on the Detailed Subsystem Design.

3. Monthly Reports

At the end of every 30 day period after award of contract, and until notification, 20 copies of a monthly report shall be delivered. These will be Interim Latter Engineering Reports and will cover progress of past month, status of work, planned activity for following month. They will include a detailed disposition of all problems encountered, solutions, and of changes being made or anticipated in the future. A summary shall be included of all trips and external conferences during the report period. Any supply, personnel or scheduling problems which might affect the completion date must be reported. In addition, engineering and support effort and percentage of completion shall be included. A monthly total and anticipated expenditure report shall be submitted no later than twenty (20) days following the end of the report period.

VIII. Supplementary Information

A. Contacts

1. The Director of Targets, AFCIN-3 will establish point of contact for all contractor relations with the Assistant Chief of Staff for Intelligence involving direct access to or consultation with all related activities and personnel.

2. The complicated and specialized nature of AFCIN-3 procedures requires that contractor representatives spend the first 120 days after award of contract working essentially full-time in AFCIN-3 as analysts or as otherwise assigned for the purpose of engineering investigation. No more than three contractor representatives will be regularly involved in direct liaison and analysis activities on premises with respect to any one of the four major areas of development (I, a, b, c, d). It is contemplated that close and continuing professional contact will be maintained by the designated AFCIN-3 personnel and contractor representatives throughout both Phases I and II. The contractor shall assure that there will be the maximum possible continuity of personnel.

3. Contractor personnel assigned to the project must be regularly employed and fully qualified to accomplish the work.

4. Contractor personnel assigned to this project must be cleared through Secret and contractor shall initiate procedure to obtain TOP SECRET clearance for key contact personnel.

5. AFCIN-3 on its part will match the contractor's working group. It is planned that the AFCIN-3 working group will be composed of a representative from each Division, plus a representative from AFCIN-3X, who will work full time during Phase I. In addition, there will be a project contact officer appointed for each Section who will facilitate exchange of information between the contractor's working group and his Section. Sufficient time beyond time spent by AFCIN-3 Team, will be made available with representative analysts in all areas and at all levels of targeting responsibility, to insure a complete understanding of the target problem by the contractor's team throughout both Phases I and II.

6. The contractor shall comply with the intent of ARDC Reg 80-21 to assure adequate reliability is attained in the overall subsystem operation. An estimate of this reliability shall be included by the contractor in the Phase I report together with the method by which it was derived and the proposed means of determining the actual subsystem reliability during testing phases. The contractor will employ the AGREE report for additional guidance in meeting the foregoing requirements.